US ERA ARCHIVE DOCUMENT

DATA EVALUATION REPORT

PEBULATE

STUDY TYPE: PRIMARY DERMAL IRRITATION - RABBIT (81-5)

Prepared for

Health Effects Division
Office of Pesticide Programs
U.S. Environmental Protection Agency
1921 Jefferson Davis Highway
Arlington, VA 22202

4/13/1999

Prepared by

Chemical Hazard Evaluation Group Toxicology and Risk Analysis Section Life Sciences Division Oak Ridge National Laboratory Oak Ridge, TN 37831 Task Order No. 98-18H

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Disclaimer

This review may have been altered subsequent to the contractor's signatures above.

Oak Ridge National Laboratory, managed by Lockheed Martin Energy ResearchCorp. for the U.S. Department of Energy under contract number DE-AC05-96OR22464.

Erythema, very slight to well defined, was noted on the exposed intact skin of the rabbits at 24 and 72 hour after exposure. On the abraded skin sites, very slight to moderate erythema was noted after 24 and 72 hours. Very slight edema was also noted on the rabbits. Based on the results. Pebulate is a slight irritant to the skin of rabbits.

Pebulate is in TOXICITY CATEGORY IV for primary dermal irritation.

This study is classified as Acceptable (guideline). It does satisfy the guideline requirement for a primary dermal irritation study (81-5) in the rabbit.

<u>COMPLIANCE</u>: Signed and dated GLP, Quality Assurance, and Data Confidentiality statements were provided. Signed and dated flagging statements were not provided. A Certification of Accuracy of the Summary and Adequacy of the Study was included.

I. MATERIALS AND METHODS

A. MATERIALS

1. <u>Test material</u>: Pebulate (Tillam Technical)

Description: clear golden colored liquid

Lot/Batch #: H-40, 5625-19

Purity: 98.6% a.i.

2. Vehicle

None

3. Test animals

Species: rabbit

Strain: New Zealand White

Age and weight at dosing: young adult; 1.3-2.0 kg

Source: Phillips Rabbitry, Soquel, CA

Acclimation period: not given

Diet: Special Mixture, Gunter Bros., Morgan Hill, CA), ad libitum

Water: drinking water, ad libitum

Housing: two/cage in suspended steel cage

Environmental conditions: Temperature: 65-70°F

Humidity: not reported
Air changes: not reported
Photoperiod: not reported

B. STUDY DESIGN AND METHODS

1. In life dates

Start: October 24, 1979; end: October 27, 1979

2. Animal assignment and treatment

The back of each rabbit was shaved and divided into 4 separate sites. The rabbits were further prepared by making epidermal abrasions, in a criss cross manner on the two posterior sites with a needle. Test material (0.5 mL) was introduced to an one square inch gauge patch and applied to intact or abraded shaved sites on the back of each rabbit. Patches without test material were used as controls. The patches were secured in place by adhesive tape and wrapped with rubberized damming. The site was scored for erythema and edema according to the Draize method after 24 hours of exposure and 72 hours after removal of the dressing and the gauze patches.

II. RESULTS AND DISCUSSION

A. Intact skin site: Very slight erythema and well defined erythema were noted on 3/6 and 3/6 rabbits, respectively, after 24 hour exposure. By 72 hours, very slight erythema and well defined erythema were noted on 4/6 and 1/6 rabbits, respectively. Very slight edema was noted on 1/6 rabbits at 24 and 72 hours.

Abraded skin site: Very slight erythema, well defined erythema, and moderate erythema were noted on 3/6, 2/6, and 1/6 rabbits, respectivly, at 24 hour after exposure. By 72 hears, 2/6 and 3/6 rabbits had very slight erythema and well defined erythema, respectively. Three and two rabbits had very slight edema at 24 and 72 hours, respectively. Based on the results, Pebulate is a slight irritant to the skin of rabbits.

B. DEFICIENCIES

Age of animals and environmental conditions with the exception of temperature were not provided. These deficiencies would not invalidate the results.

Primary Dermal Irritation Study (81-5)

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SignOff Date:4/13/99DP Barcode:D254687HED DOC Number:013311Toxicology Branch:TOX1